

Practitioner's Docket No. **MP198-021DV3**

PATENT

IN THE CLAIMS:

Kindly cancel claims 22, 23, and 25-28 and amend claims 20, 24, and 32 as follows:

STATUS OF THE CLAIMS:

1-20 (cancelled)

20. (amended herewith) A method of identifying a compound that modulates the expression of a gene encoding GLUTX, the method comprising the steps of:

- a) contacting a cell expressing a gene encoding GLUTX with a test compound; and
- b) detecting the level of expression of the gene in the presence of the test compound, wherein a difference in expression in the presence of the test compound compared to expression in the absence of the test compound indicates that the test compound modulates expression of the gene;

wherein the gene encoding GLUTX is a nucleic acid encoding the amino acid sequence of SEQ ID NO:2.

21. (previously presented) The method of claim 20, wherein the compound is selected from the group consisting of polypeptides, ribonucleic acids, small molecules, ribozymes, antisense oligonucleotide, and deoxyribonucleic acids.

22-23 (cancelled)

24. (amended herewith) A method for modulating hexose uptake, the method comprising:

- a) administering an antisense or ribozyme oligonucleotide which hybridizes to a nucleic acid molecule consisting of the nucleotide sequence of SEQ ID NO:1 to a cell or tissue expressing a GLUTX gene encoding the amino acid sequence of SEQ ID NO:2; and
- b) modulating inhibiting the expression or activity of a GLUTX gene encoding the amino acid sequence of SEQ ID NO:2;

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wherein inhibiting the expression of a gene encoding the amino acid sequence of SEQ ID NO:2 results in modulating hexose uptake;
and wherein the oligonucleotide hybridizes under conditions of hybridization at 42° C in 2XSSC/0.1% SDS and washing at 68° C in 0.1XSSC.

25.-28 (cancelled herewith)

29-31 (cancelled)

32. (amended herewith) The method of claim 20, wherein the gene further comprises a sequence encoding an amino acid sequence encoding the amino acid sequence of SEQ ID NO:2 selected from the group consisting of:

- i) the ~~amino acid~~ nucleotide sequence of SEQ ID NO:12, and
- ii) a nucleotide sequence which hybridizes to a nucleic acid molecule consisting of the complement of the nucleotide sequence of SEQ ID NO:1 under conditions of hybridization at 42° C in 2XSSC/0.1% SDS and washing at 68° C in 0.1XSSC. ~~at least 15 contiguous amino acids of SEQ ID NO:2~~

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